

INDIGO - DataCloud  
Better Software for Better Science

# INDIGO SOLUTIONS FOR MULTIDISCIPLINARY SCIENTIFIC APPLICATIONS

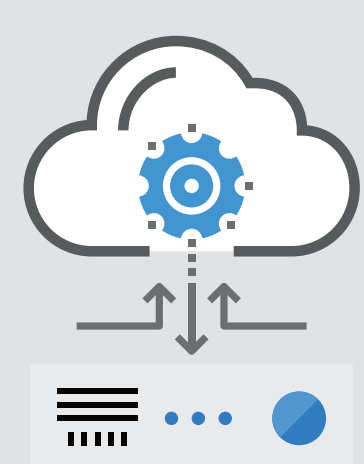
INDIGO provides a simplified user experience, allowing easier access and usage of scientific applications by a wide-range of scientific communities.

[www.indigo-datacloud.eu](http://www.indigo-datacloud.eu)

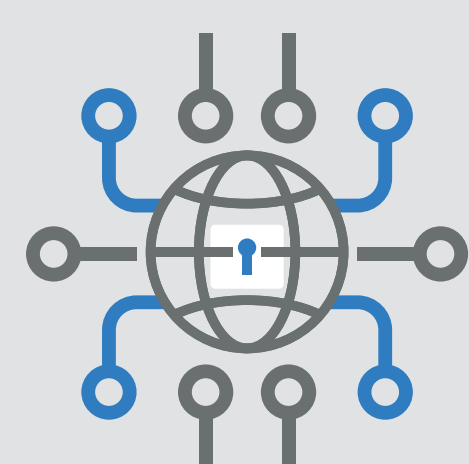
## Data Center and Storage solutions



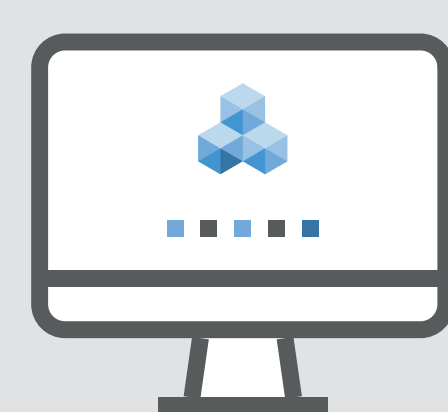
Fairshare Scheduler for OpenStack



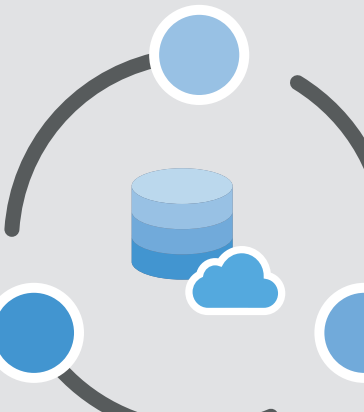
Cloud Provider Ranker



Global Data Access



Infrastructure Manager



Storage Quality of Service and Data Lifecycle Support



Partition Director Service for Batch and Cloud resources

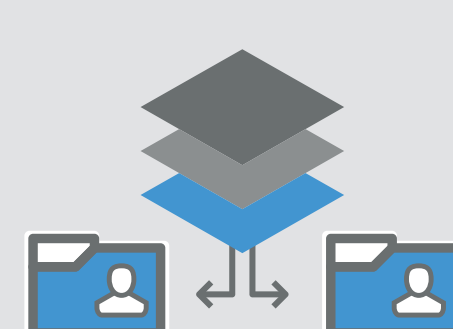


Extended OpenStack and OpenNebula Functionalities



OCCI Support for OpenStack and OpenNebula

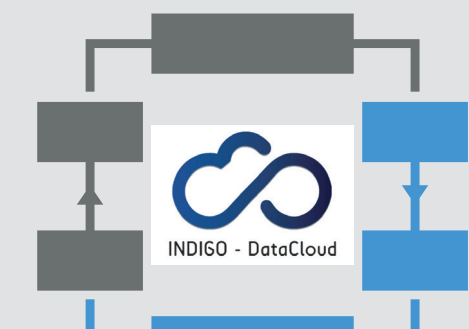
## User-oriented solutions



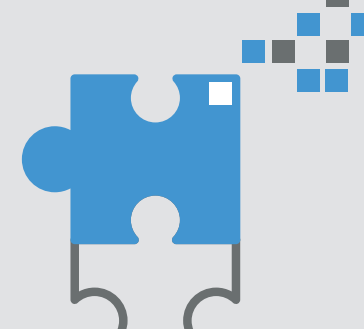
Userspace Container Support



Data Mining and Analytics for e Science Server



Indigo Plug-ins for scientific workflow systems



Future Gateway (Programmable Scientific Portal)



Access & Usability



User Authentication

## Automated solutions



PaaS Orchestrator



QoS/SLA Management Service



Core PaaS

## Cloud Infrastructures and Data-aware scheduling

- » ELIXIR-ITA - Galaxy
- » Cultural Heritage Applications
- » Molecular Dynamics Simulations
- » Multidisciplinary Oceanic Information System
- » On-Demand Instantiation of LHC/CMS Computing Centers

## Workflow and Data Management

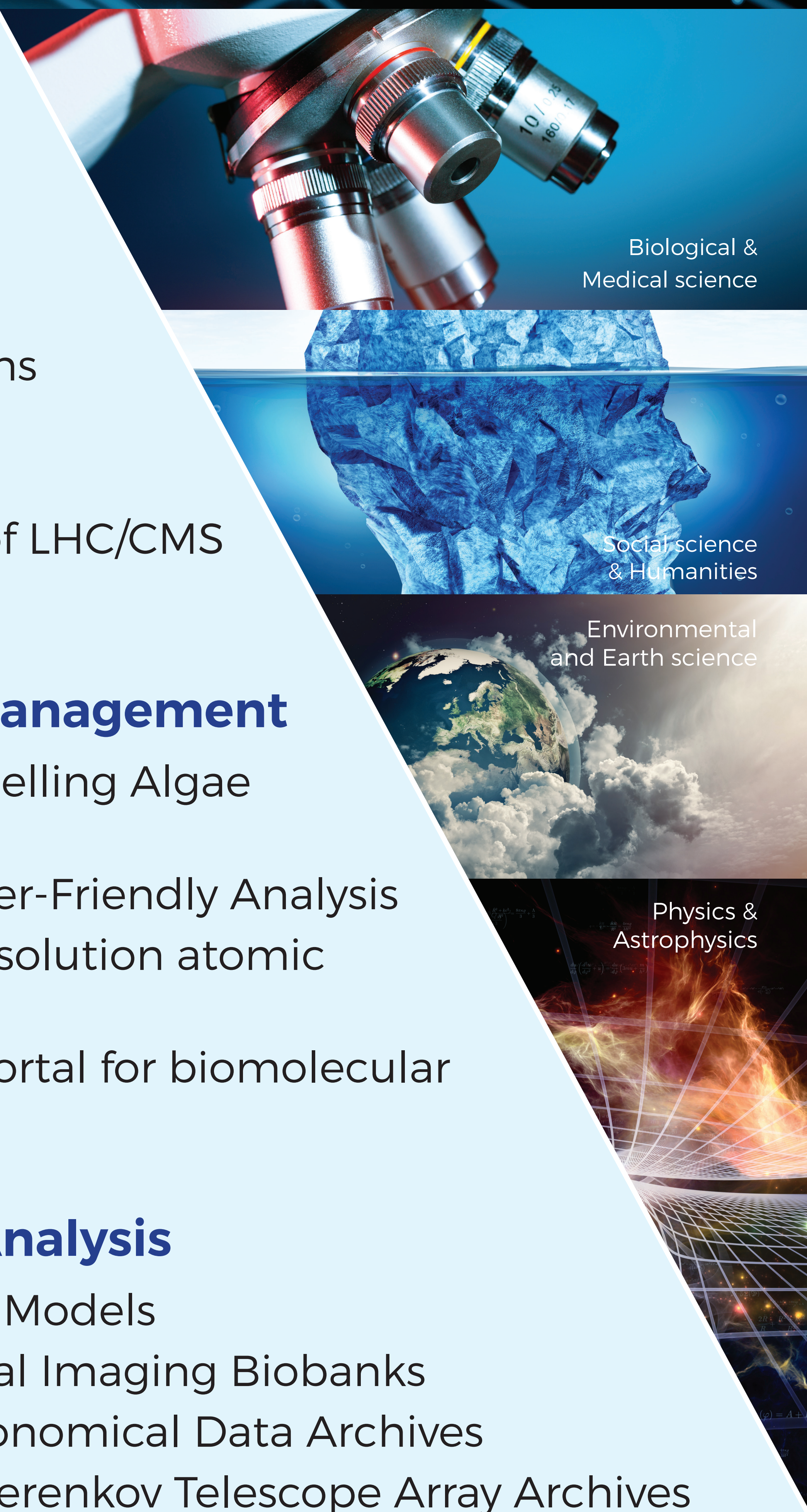
- » Monitoring and Modelling Algae Bloom
- » Transcriptomes User-Friendly Analysis
- » Fitting of high-resolution atomic structures
- » HADDOCK: Portal for biomolecular DOCKing

## Big Data Analysis

- » Climate Models
- » Medical Imaging Biobanks
- » Astronomical Data Archives
- » Cherenkov Telescope Array Archives

## MidnightBlue Service Catalogue

Discover & download INDIGO Service Suite



Biological & Medical science

Social science & Humanities

Environmental and Earth science

Physics & Astrophysics

The INDIGO-DataCloud software is released under the Apache 2.0 software license and can be deployed on both public and private Cloud infrastructures. Release notes, installation and configuration guides, documentation and support procedures can be downloaded from <http://repo.indigo-datacloud.eu>

**Stay tuned.** If you want to be notified when a new release is out, **register online** on [www.indigo-datacloud.eu](http://www.indigo-datacloud.eu). The first scientific applications and use cases adopting this first INDIGO release are expected starting from September 2016.

[www.indigo-datacloud.eu](http://www.indigo-datacloud.eu)



European Commission

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